

**AMENDMENTS TO THE CLAIMS WITH MARKINGS TO SHOW CHANGES
MADE, AND LISTING OF ALL CLAIMS WITH PROPER IDENTIFIERS**

1. (Currently amended) A heat exchanger, comprising:

a tube bottom made of pressure-resistant and temperature-resistant plastic selected from the group consisting of PU (polyurethane), synthetic resin, epoxy resin, and cross-linked PU, said tube bottom having a trough-shaped configuration and provided with a circumferential flange; and

a plurality of tubes disposed in side-by-side relationship in the tube bottom and forming at least indirectly part of a distribution and/or collecting chamber, said tubes being made of metal selected from the group consisting of steel, vanadium, copper, and brass, wherein the tubes have tube ends which are each provided with a circumferential securing member to inhibit extraction of the tubes from the tube bottom by anchoring the tube ends with the securing member in the tube bottom through a casting process or injection process; and

a plurality of metallic threaded sleeves formed in the flange of the tube bottom through a casting process or injection process.

Claims 2-5 (Canceled)

6. (Original) The heat exchanger of claim 1, wherein the tube bottom is provided with plural pipes, each of which having a flange.

7. (Original) The heat exchanger of claim 1, wherein the tube bottom is provided with reinforcements.
8. (Original) The heat exchanger of claim 7, wherein the reinforcements are made of a material selected from the group consisting of fiber glass, metallic wire, and carbon fiber.
9. (Original) The heat exchanger of claim 1, wherein the flange is provided with reinforcements.
10. (Original) The heat exchanger of claim 9, wherein the reinforcements are made of a material selected from the group consisting of fiber glass, metallic wire, and carbon fiber.
11. (Original) The heat exchanger of claim 1, wherein the securing member is implemented by embossments formed on the tube ends.
12. (Original) The heat exchanger of claim 1, wherein the securing member is implemented by funnel-shaped flared portions of the tube ends.
13. (Original) The heat exchanger of claim 1, wherein the securing member is implemented by rings attached circumferentially to the tube ends.

14. (Original) The heat exchanger of claim 1, wherein the securing member is implemented by surface roughening of the tube ends about their circumference.

Claims 15-21 (Canceled)